

WHAT IS CLAIMED IS:

1. A heat exchanger comprising:

a core member including:

5 a plurality of hot-side fluid or gas transport passages for accommodating passage of a first fluid or gas therein;

a plurality of cold-side fluid or gas transport passages for accommodating passage of a second fluid or gas therein that is provided at a temperature less than that of the first fluid or gas, the hot-side and cold-side fluid or gas transport passages being in contact with one another to permit conductive heat transfer;

10 manifolds connected to ends of the hot-side and cold-side fluid or gas passages to direct and receive the first and second fluids or gases into and from the respective hot-side and cold-side fluid or gas transport passages;

a flow director disposed within one of the manifolds to change the flow direction of the first or second fluid or gas passing therethrough.

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